Series3800/S120T

POWERFUL SERVERS AT EXCEPTIONAL VALUE

Key Features

- Whisper Quiet Workstation (28dB) with High-end Graphics Support
- Quad-Core or Dual-Core Intel® 64-bit Xeon® with 1333 / 1066 MHz FSB
- Up to 48GB 667/533MHZ DDR2 ECC Register SDRAM
- 1 (x16) PCI-e, 1 (x4) PCI-e (using x16 slot), 2x PCI-X 133/100MHz, 2x PCI 33MHz Slots
- Intel Dual 82573V/L Gigabit Ethernet Controller
- LSI 1068E 8-Port SAS Controller; RAID 0, 1, 10
- 8 x 3.5" Hot-swap SAS/ SATA Drive Bays
- 865W Low-Noise High Efficiency Power Supply
- Tower or Rack mount
- PWM Fan Speed Control

Processor / Cache

CPU	• Supports up to two Intel® 64-bit Xeon® processors of the same type • Quad-Core Intel Xeon processor 5400/5300 sequence (Harpertown / Clovertown processor) up to 3.16 GHz • Dual-Core Intel Xeon processor 5200/5100 sequence (Wolfdale/ Woodcrest processor) up to 3.40 GHz
System Bus	• 1333 / 1066 MHz system bus

Operating System Software

Software	• Red Hat® Linux® 5.0 & 5.1 • Fedora® Core 6 – 8 • SuSE® Linux 10.3 • SuSE SLES10 SP1 • VMware® ESX 3 & 3.5

System Memory

Memory Capacity	• Eight 240-pin DIMM sockets • Supports up to 32 GB 667 / 533MHz DDR2 ECC FB-DIMM memory • Dual branch memory bus • Memory must be populated in pairs • Memory Mirroring supported
Memory Type	• 667 / 533MHz FB-DIMM (Fully Buffered DIMM) ECC DDR2 SDRAM 72-bit, 240-pin gold-plated DIMMs w
DIMM Sizes	• 512 MB, 1GB, 2GB, 4GB

On-Board Devices

SATA	• Intel ESB2 SATA 3.0Gbps Controller • RAID 0, 1, 5, 10 support (Windows Only) • RAID 0, 1, 10 support (Linux)
SAS	• Adaptec AIC-9410 Serial-Attached SCSI (SAS) Controller • SAS Dual-Channel (internal) • Each SAS channel supports up to 4 SAS / SATA drives for a total of up to 8 SAS or SATA hard drives • Host RAID 0, 1, & 10 support
RAID	• Support for Zero-Channel RAID with Optional Card
IPMI	• Support for Intelligent Platform Management Interface v.2.0 • 200-pin IPMI slot (SIMLP) as option
Network Controllers	• Intel (ESB2/Gilgal) 82563EB Dual-Port Gigabit Ethernet Controller • Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output • Intel I/OAT support for fast, scaleable, and reliable networking
Graphics	• ATI ES1000 controller with 16 MB of video memory
I / O	• Winbond 83627HG chip

Input / Output

SAS	• 8 SAS / SATA ports Serial ATA • Six Serial ATA ports • Six SATA hard drives supported
IDE	• Single EIDE channel supports up to two UDMA IDE devices (IDE-M, IDE-S) including CF (compact flash) card • Supports UDMA Mode 5, PIO Mode 4, and ATA/100
Floppy	• 1 Floppy controller; 1.44 MB
LAN	• 2x RJ45 LAN ports
USB	• 4x USB rear ports • 6x USB internal header • 10 total USB ports, 2.0 Compliant
Audio	• High Definition 7.1 Channel Audio • Line-in / Line-out / Microphone Ports

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Input / Output (cont...)

Keyboard / Mouse	• PS/2 keyboard and mouse ports
Serial Port / Header	• 1 Fast UART 16550 serial port • 1 header
Parallel Port	• 1 ECP / EEP parallel port

Chassis

Form Factor	• 4u Rackmountable / Tower

Expansion Slots

PCI-Express	• 1 (x16) PCI-e slot • 1 (x4) PCI-e (using x16)
PCI-X	• 2x 64-bit 133/100MHz PCI-X (3.3V) slots
PCI	• 2x 32-bit 33MHz PCI (5V) slots

System BIOS

BIOS Type	• 8MB Flash EEPROM with Phoenix® BIOS
BIOS Features	• Plug and Play (PnP) • DMI 2.3 • PCI 2.2 • ACPI 1.0 / 2.0 • ACPI 1.0 (limitied) • USB keyboard support • Hardware BIOS Virus protection

Management

Software	• Optional IPMI (Intelligent Platform Management Interface) 2.0 • SuperDoctor III • Watch Dog • NMI
Power Configurations	• ACPI / ACPM Power Management • Main Switch override mechanism • Wake-On-Ring (WOR) header • Wake-On-LAN (WOL) header • CPU Fan auto-off in sleep mode • Power-on mode for AC power recovery • Internal / External modem remote ring-on • Suspend to RAM (STR)

PC Health Monitoring

CPU	• Monitors for CPU Cores, +,+1.8V, +3.3V, +5V, ±12V, +3.3V Stdby, +5 Stdby, VBAT, HT, Memory, Chipset • CPU Core 6-Phase-switching voltage regulator with auto-sense from 0.8375V-1.60V
FAN	• Eight 4-pin fans • 8x fans with tachometer monitoring • Status monitor for speed control • Status monitor for on/off control • Support for 3-pins • Low noise fan speed control • Pulse Width Modulated (PWM) fan connectors

PC Health Monitoring cont'd

Temperature	• Monitoring for CPU and chassis environment • CPU thermal trip support • Thermal control for 8x fan connectors • PSU I2C temperature sensing logic • Thermal Monitor 2 (TM2) support
LED	• CPU / System Overheat LED • Suspend-state indicator LED • +5V Standby alert LED
Other Features	• Chassis intrusion detection • Chassis intrusion header • SDDC support

Dimensions

Height	• 7.0" (178mm)
Width	• 17.2" (437mm)
Depth	• 25.5" (648mm)
Gross Weight	• 63 lbs (28.6kg)
Color	• Black

Front Panel

Buttons	• Power On/Off button • System Reset button
LEDs	• Power LED • Hard drive activity LED • 2x Network activity LEDs • System overheat LED / fan fail LED
Ports	• 2x USB ports

Drive Bays

Hot-swap	• 8x SAS Hot-swap Drives
Peripheral Bay(s) [90° Rotatable]	• 2x 5.25" Peripheral Drive Bay • 1x 5.25" Bay For Floppy Drive

Peripheral Drives

Floppy	• Panasonic® 3.5" 1.44MB Floppy Drive

SAS / SATA Backplane

• SC743 SAS / SATA Backplane w/ Enclosure Management

System Cooling

Fans	• 2x 8cm Hot-swappable PWM cooling fans • 1x 9cm Hot-swappable rear exhaust PWM fan • 2x Active heatsink w/ heatpipe

Power Supply

865W AC power supply w/ PFC	
AC Voltage	• 100 - 240V, 50-60Hz, 12-6 Amp

Operating Environment / Compliance

RoHS - RoHS Compliant 5/6, Server Exemption

Environmental Spec.
Operating Temperature: 10°to 35°C (50°to 95°F)
Non-operating Temperature: -40°to 70°C (-40°to 158°F)
Operating Relative Humidity: 8% to 90% (non-condensing)
Non-operating Relative Humidity: 5 to 95% (non-condensing)
Compliance
USA - UL listed
Canada - CUL listed
Germany - TUV Certified
EN 60950/IEC 60950-Compliant
CB Report
CCC Certification

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